110

QC1- Inspect dimensions to dimension sheet

*Do not use sandpaper coarser than 320 grit.

0.00

110

QC -

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0.00

Quality Control

9ngm L 12/06/05

Dart Aerospace L	_ta
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W/O:		WORK ORDER CHANGES											
DATE	DATE STEP PRO			EDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:			NCI	R: Yes I	io DQ/	A:	Date:	·			
	R	esolution:							Date:				
NCR:		\	WORK OR	DER NON-CONFO	RMANCE	(NCR))						
DATE	STEP	Description of NC	ption of NC		Section B	Sign &	Verification		Approval	Approval			
	O	Section A	Initial Chief Eng	Action Descript Chief Eng	ion	Date	Section	on C	Chief Eng	QC Inspector			
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130

Quality Control

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Stamp

May-31-12 3:43:42 PM Item ID: D212-664-101TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail **Start Date:** 31/05/2012 Start Oty: 1.00 **Cust Item ID: Required Date:** 14/06/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Date: **Approvals:** Process Plan: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description **Run Hours** Code Qty Number **Qty** 120 0.00 *120* MORI SEIKI CNC LATHE LARGE Mori Seiki 0.00 Memo Mori Seiki CNC Lathe Large 1-Turn second side as per Folio FA113 2-Blend transition lines only, **do not sand whole tube**: *Use mill bastard file, brush file repeatedly with file card. *Do not use sandpaper coarser than 320 grit. FOLIO REV: DWG REV:_ 3-Remove sand and plugs 130 QC1- Inspect dimensions to dimension sheet 0.00

0.00

Memo

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Pro

Dart Aerospace L	Ltd
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W/O: 82	5061	WORK ORDER CHANGES		ALLES THE	
DATE	STEP	PROCEDURE CHANGE	Ву	Date Qty Approval	Approval QC Inspector

Part No: <u>D212-664-1017RN</u> PAR #:	Fault Category:	NCR: Yes No DOA: Date:	
Resolution:	Disposition:	QA: N/C Closed: Date:	

NCR:		,	NORK ORI	DER NON-CONFORMANC	E (NCR)		
		Description of NC		Corrective Action Section B		Verification Approval	Approva
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C Chief Eng	QC Inspect
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Hand Finishing Crosstubes

HandFXtube

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w/o: 8	506 1	WORK ORDER CHANGES				·	
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Resolution:	Disposition:	QA: N/C Closed:	Date:
Part No: D212-664-101 TRN PAR #:	Fault Category:	NCR: Yes No DQA:	Date:

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC	Corrective Action Section B			Verification	A	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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May-31-12 3:43:42 PM Item ID: D212-664-101TRN Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Turning Detail Start Date: Start Oty: 1.00 31/05/2012 **Cust Item ID: Required Date:** 14/06/2012 Reg'd Oty: 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Reject Accept Insp. **Work Center ID** Description **Run Hours** Code Qty **Qty** Number Stamp 160 QC7-Inspect Chemical Conversion Coat 0.00 *160* OC 0.00 Memo Quality Control 170 0.00 Packaging *170* Packaging 0.00 Memo Packaging Identify and Stock in kanban rack 12/6/11 1C MF 06-06 180 QC21- Final Inspection - Work Order Release 0.00 *120* 0.00 Memo Quality Control

Dart A	erospace	Ltd
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Resolution:			Disposit	tion:	QA:	N/C Clo	sed:		Date:	
NCR:		V	VORK OR	DER NON-CONFORM	ANCE	(NCR)				
DATE	STEP	Description of NC		Corrective Action Section B			Verific	ation	Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector
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Picklist Print

May-31-12 3:43:46 PM

Work Order ID: 85061

D212-664-101TRN

Parent Item Name: Crosstube Turning Detail

85061

D212-664-101TRN

Start Date: 31/05/2012

Required Date: 14/06/2012

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 removed Polish EC verified by: DD

Component Item Item Name	ID/ Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status	
D6005-128		Manufactured	No			120	Each	25.0000	1	1				
D6005	5_128								**	•				

Crosstube Material

Location Loc Oty Loc Code LG 25 25

_____ man L 12/06/13

Dart Aerospace	Ltd
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W/O:		WORK ORDER CHANGES										
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DART AEROSPACE LTD	Work Order:	85061
Description: Crosstube Assembly (205/212/412 High Fwd)	Part Number:	D212-664-141
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype
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	nspection Sheet awing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.200	+/-0.010	,200			vern	CWC-08
	R0.063	+/-0.010	.063			R6	
İ	2.740	+0.005/-0.000	2.740 -2	1737		Ver	evc-os
	5.097	+/-0.030	5.097	/		1	
	2.304	+0.005/-0.000	2-307				
_	2.340	+0.005/-0.000	2.345	/			
EA	2.398	+0.005/-0.000	2-403				
SIDE	2.448	+0.005/-0.000	2.453				
	2.498	+0.005/-0.000	2.502	-			
	2.549	+0.005/-0.000	2.534	7			
	2.599	+0.005/-0.000	2.603				
	2.671	+0.005/-0.000	2.673		- "		
	2.701	+0.005/-0.000	2.701			J	
	0.200	+/-0.010	.200			vern	CNC-OB
	R0.063	+/-0.010	.063		,	Rb	
	2.740	+0.005/-0.000	2.740-2.7	38		vern	CWC-OB
	5.097	+/-0.030	5.097	/		1	
	2.304	+0.005/-0.000	2.307				
	2.340	+0.005/-0.000	2-345				
E B	2.398	+0.005/-0.000	2.403				
SIDE	2.448	+0.005/-0.000	2.453				
	2.498	+0.005/-0.000	7-503				· · · · · · · · · · · · · · · · · · ·
	2.549	+0.005/-0.000	2-554				· · · · · · · · · · · · · · · · · · ·
	2.599	+0.005/-0.000	2-604				
	2.671	+0.005/-0.000	2.673				
	2.701	+0.005/-0.000	2.701				
	126.514	+/-0.020	126-526			terpe	16-22

Measured by: 9790 | Audited by: Prototype Approval: N/A

Date: 12/66/03 | Date: D-6-5 | Date: N/A

Approved	Revised by	Change	V
	KJ/JLM	New Issue (P/O D412-664-101)	- } (
	KJ/JLM	Tolerance revised for 5.097 per Dwg Rev update	
1	KJ/JLM	Dwg Rev updated	
- -		Dimension 126.514 was 126.51	
_	KJ 🙀	Dimension 126.514 was 126.51	

											
W/O:			WO	RK ORDER CHANGES							
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	:	PAR #:	Fault Categ	ory: i	ICR: Yes	No DQ	A:	Date:			
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NCR:			WORK ORDE	R NON-CONFORMAN	CE (NCR	R)					
DATE	STEP	Description of NC		Corrective Action Section E		Verific	cation	Approval	Approval		
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Secti	on C	Chief Eng	QC Inspector		
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Item	Qty -141	Qty -141B	Part Number	Description
1	х		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4.	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

В

- 1) MATERIAL: MANUFACTURED FROM D6005-128
- FINISHED LENGTH = 126.514±0.020 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS
- WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664)
 - D212-664-141B = 33.6 lbs (PER IIN-D212-664)
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O D
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY **RETURN TO ENGINEERING UNCONTROLLED COPY** SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER MUT

12/06/01

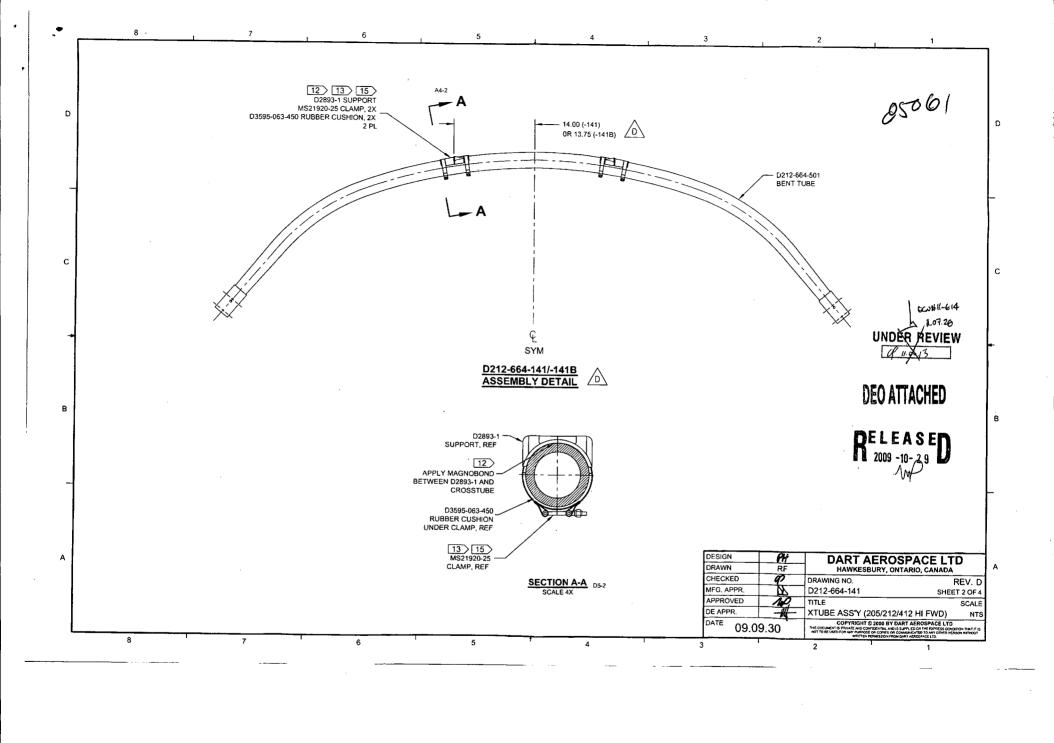
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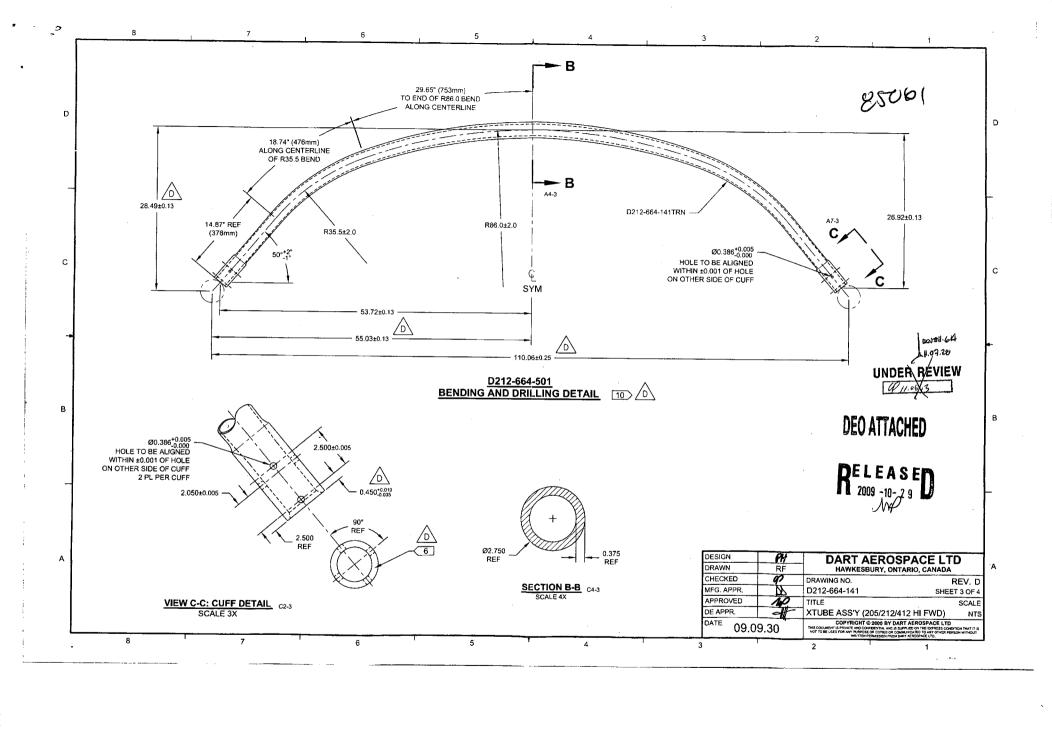
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С			SION STRIP; ADD MAGNOBOND /ERSE CLAMPS	PH	07.03.08			
В.	ADD H SKIDTI	OLES FOR CO UBES	PH 05.02.04					
A.	NEW IS	SSUE	PH	00.12.12				
REV.			BY.	DATE				
DESIGN		PH	DART AEROSPACE LTD					
DRAWN		RF	HAWKESBURY, ONTARI					
CHECK	ED	P	DRAWING NO.		REV. D			
MFG. AF	PR.	_ <i>I</i> Z	D212-664-141	5	HEET 1 OF 4			
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DE APP	₹.		XTUBE ASSY (205/212/412	HI FWI				
DATE	09.0	9.30	COPYRIGHT © 2000 BY DART AEROSPACE LTD HIS DOCUMENT IS PRIVATE AND COMPENTIA, AND IS SUPPLIED ON THIS DYPERS SCHONTON THAT IT IS NOT TO BE USED FOR ANY PLIPPOSE OR CORPED OR COMMUNICATION TO ANY CHIEF PERSON WITHOUT WITHOUT STREET PERSON WITHOUT HEAT MEMBERS AND COMPANY OF THE PERSON WITHOUT WITHOUT STREET PERSON WITHOUT HEAT MEMBERS AND COMPANY OF THE PERSON WITHOUT WITHOUT STREET PERSON WITHOUT HEAT MEMBERS AND COMPANY OF THE PERSON WITHOUT STREET PER					

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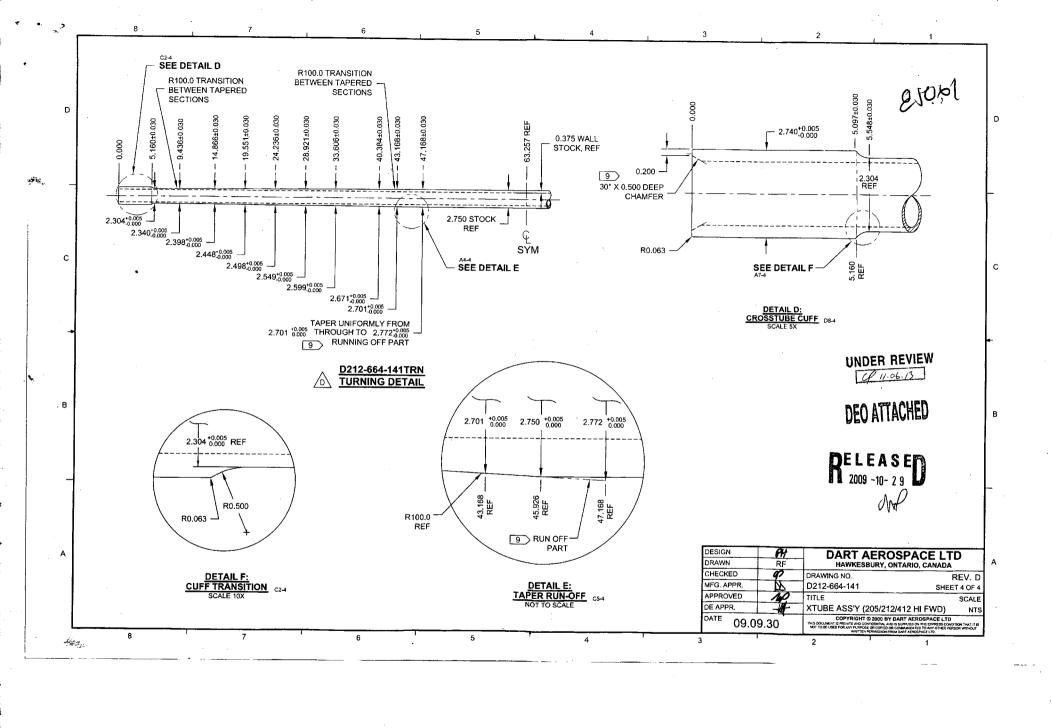
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DRAWING NO.	TITLE	REV. D	DART AEROSPACE LTD		SHEET NO.	SCALE
	XTUBE ASSY (205/212/4	12 HI FWD)	ENGINEERING ORDER	D212-664-141-D-1	SHEET 1 OF 2	NTS
DRAWN	CHECKED	<u> </u>	MFG. APPR. B	APPROVED MY	DE APPR.	
DATE 11.04	.07 DATE	11,0%11	DATE ((.04.12	DATE 11/04/12	DATE 11.04.12	

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

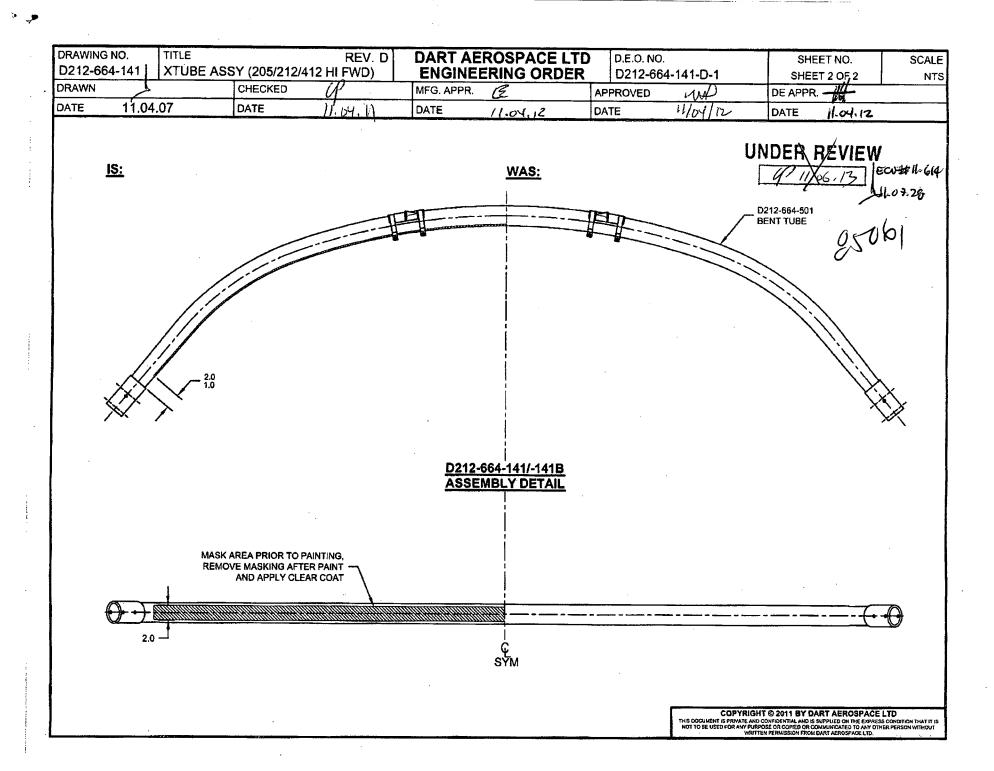
PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

THIS DOCUMENT IS PRIVATE AND CONSIDERING, AND IS SUPPLIED ON THE CEPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIES OR COMMINICATED TO ANY OTHER PERSON WITHOUT WITH PERMISSION PROMO DATA RECORDANCE IT.

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W/O:			W	ORK ORDER CHANG	ES					,
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DRAWING NO.	TITLE PEV D	DADE ASSOCIATION			
	INLV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>S	MFG. APPR.	APPROVED IN	DE APPR.	
DATE 11.07	.15 DATE 11.07.20	DATE 11.07.21	DATE 11/07/21	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
<u></u>				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

10

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

85001



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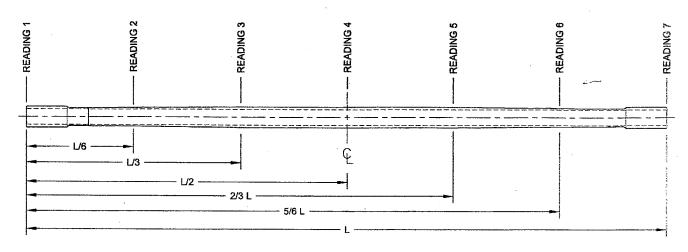
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Dart Aerospace

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DART AEROSPACE LTD	Work Order:	85061
Description: Crosstube	Part Number:	D212-664-101 m
Inspection Dwg: /) Rev: AA		Page of

WALL THICKNESS MEASUREMENT



	WALL THICKNESS MEASUREMENT (IN)				Deviation		
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE	
READING 1							
READING 2 L= 21"	.236	.244	. 235	.248	,		
READING 3 L= 42'"	. 361	. 353	.350	,360			
READING 4						0.030"	
READING 5 L= 24'42"	.360	. 36 8	,350	.345			
READING 6 L= 増む"	.238	-251	.249	.2%		9	
READING 7							

Calibration Result

Actual Block Thickness: 200

Sitescan 250 Measured Thickness: 200